METHOD FOR THE PRODUCTION OF HIGH-CONCENTRATION MANGANESE MINI-TABLETS FOR ALLOYING ALUMINUM BATHS AND DEVICE FOR IMPLEMENTING SAID METHOD

Abstract of the Disclosure

The method has the aim of obtaining Mn mini-tablets with a concentration of the metal ranging between 90 and 98%, Al particles being the binding element. The method is based on the use of ground electrolytic Mn from shales with a chemical purity of 99.7% or higher. The product is screened with a mesh of less than 450 micra, wherein the fine powder content should be less than 15%. Moreover, atomized powder Al obtained by mechanical processes with a granulometry of between 100 and 800 micra and with over 80% of the powder being between 350 and 720 micra should be used in the method. The method is carried out in a device having a storage hopper (1), a diffuser (4) of the product in the hopper (1), a hopper for compacting and shaping the mini-tablets in molds (9) in combination with pressing punches (7 and 8) and with the aid of an alveolar and dosing valve (10) mounted between the feed chamber (5) and the compacting chamber (6).